TABLE I Solvay Trona Plant Pollutant Emission Pates ppn Page 3 3

		re 3/3		and the second second	-	
Source				Polls	itants	
Number	Equipment/Description		PM _{so}	so,	150,	Aoc
53	Product Silo Reclaim Baghouse #2	{RMV}	-1.10	n.a.	n.a.	6.0
53	Product Silo Reclaim Baghouse #2	{ADD}	0.45	n.a.	n.a.	0.0
64	Sulfite Blending #2 Baghouse	{RMV}	-0.15	n.a.	n.a.	0.0
64	Sulfite Blending #2 Baghouse	{ADD}	0.08	n.a.	n.a.	0.0
65	Sulfite Blending #1 Baghouse	{RMV}	-0.06	n.a.	n.a.	0.0
65	Sulfite Blending #1 Baghouse	{ADD}	0.03	n.a.	n.a.	0.0
73	MBS Product Dryer	{RMV}	-1.20	-0.77	-0.15	0.0
73	MBS Product Dryer	{ADD}	0.90	0.77	0.15	0.0
	Subtotal, Current Proposed Plant Modificat	tions (pph)	-40.83	0.00	15.25	221.1
	Annual Emission To	tals (TPY)	-181.1 a	0.0	66.8	968.7
	Bagging Facility/MB	S Plant	Modificat	ions		
40	Sulfite Product Bagging Baghouse	{RMV}	-0.30	n.a.	n.a.	0.0
68	Trona Silo/Bagging Machine Baghouse	{RMV}	-0.41	n.a.	n.a.	0.0
68	Trona Silo/Bagging Machine Baghouse	{ADD}	0.36	n.a.	n.a.	0.0
69	Soda Ash Silo/Bagging Machine Baghouse	{RMV}	-0.41	n.a.	n.a.	0.0
70	Sulfite Silo/Bagging Machine Baghouse	{RMV}	-0.41	n.a.	n.a.	0.0
70	Sulfite Silo/Bagging Machine Baghouse	{ADD}	0.27	n.a.	n.a.	0.0
71	MBS Silo/Bagging Machine Baghouse	{RMV}	-0.41	n.a.	n.a.	0.0
71	MBS Silo/Bagging Machine Baghouse	{ADD}	0.27	n.a.	n.a.	0.0
72	MBS Soda Ash Feed Bin Vent Filter	{RMV}	-0.14	n.a.	n.a.	0.0
72	MBS Soda Ash Feed Bin Vent Filter	{ADD}	0.07	n.a.	n.a.	0.0
Subt	otal, Bagging Facility/MBS Plant Modificat	ions (pph)	-1.11	0.00	0.00	0.0
	Annual Emission To	tals (TPY)	-4.9	0.0	0.0	0.0
	"D" Process :	Line Expa	nsion			
76/	"D" Train Primary Ore Screening Bagh		2.45	n.a.	n 2	0.0
79 /	Ore Transfer Point Baghouse		0.84	n.a.	n.a.	0.0
80 🗸	"D" Ore Calciner Precipitator		12.25	n.a.	n.a. 20.00	533.5
81 🗸	"D" Train Dryer Area Baghouse		0.50	n.a.	n.a.	0.0
82 //	DR-6 Product Dryer Precipitator		3.45	n.a.	30.00	0.0
83 🗸	Product Silo Top Baghouse #3		0.41	n.a.	n.a.	0.0
85	#3 Gas Boiler		0.48	n.a.	3.80	0.0
	Subtotal, "D" Process Line Expans	sion (pph)	20.38	0.00	53.80	534.04
	Annual Emission Tot		89.3	0.0	235,6	2339.1
	GRAND TOTAL SOLVAY PI			000000000000000000000000000000000000000		
	Grand Total, Solvay Plant Emissi		88.37	141.17	aU9.90	18377876

***** Footnotes *****

- α \Rightarrow Sources will operate on a schedule of 12 hours/day, therefore annual emissions are based on one half of a year, or 4380 hours operation.
- Source #2a industrial ventillation system will be modified to include dust collection from pick up points from the existing source #47 cusher baghouse, while #47 is eliminated from the plant inventory. The #2a fan will not be changed, however, and that fan's exhaust air volume will simply be re-apportioned throughout the modified collection ductwork. With the same projected exhaust volume, the existing source #2a particulate emission rate will remain at 1.60 pph.

Solvay Minerals VOC / HAP's INVENTORY (Ib/hr by source) Page 1 of 2 Table II

Tot	Subtotal Aldehyde	Acrolein	Propionaldehyde	Acetaldehyde	Formaldehyde	P's (Method 0011)	out	Phenoi	Naphmaiene	,N-dimethylaniline	Ji-n-butylphthalate	Dibenzofuran	Cumene	m-, o-, p- Cresols	hloroacetophenone	?-Ethylhexyl)phthalate	Biphenyl	Acetophenone	\P's (Method 0010)		Sut	Trichloroethylene	Methylene Chloride	Acrilonitrile	1,1,1 Trichloroethane	Xylene	Toluene	Styrene	Hexane	2-Butanone	Ethylbenzene	1,3 Butadiene	AP's (Method 0030)		I Volatile Organic Compounds *				
Total Title III HAP's ==> 219.7594 80.3348 151.2155 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 12.7500 0.0000 0.00	Subtotal Aldehyde & Ketone HAP's ==>	000107-02-8	000123-38-6	000075-07-0	000050-00-0	CAS Number	Subtotal SYOC DAF 8	2-56-801000	000000-25-3	000121-69-7	000084-74-2	000132-64-9	000098-82-8	000108-39-4	000532-27-4	te 000117-81-7	000092-52-4	000098-86-2	CAS Number		Subtotal VOC HAP's ==> 215 7000 79 4300 1448 3300 0 0000					001330-20-7	000108-88-3	000100-42-5	000110-54-3	000078-93-3	000100-41-4	000106-99-0	CAS Number		Compounds * ==>				
219.759	3.7300	1.7400	0.4200	1.1900	0.3800	-	-7 U.S.54	Т	0.14//	0.0076	0.0115	0.0191	0.0018	0.0093	0.0014	0.0015	0.0228	0.0160			215 700	38 2800	1.2600	5.4500	11.4300	22.6000	13.2900	5.9600	14.7100	19.6200	6.1500	51.8900	25.0800		776.00	Caicilia	AQD #17	T	T
4 80.3348	0.7400	Н	-	-	0.1200		0.1040	╀	0.0739	╀	0.0058	₽	0.0009	0.0047	0.0007	0.0008	⊢	0.0080	┢		79 4300	+	-+	-	-	-	Н	\vdash	-	-	-	-	10.6100	-	388.00	Calculat		Calciners	Calcino
151.2155	2.5700	1.2000	0.2900	0.8200	0.2600		0.3233	Т	0.10.0	0.0052	0.0079	0.0131	0.0012	0.0064	0.0010	0.0011	0.0157	0.1100			149 3510	_	7	┪	Н	15.5400	Н	_	10.1100	13.4900	7	35.6800	_	_	533.50	Calcula		1	
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on methane/non ethane hydrocarbons - Methods 18 & 25A nest four compounds may have been misidentified during the GC stack tests. The more accurate GC/MS did not identify these compounds in emission rate considered insignificant per testing or process knowledge

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VOC / HAP's INVENTORY (lb/hr by source)
Page 2 of 2 SOLVAY MINERALS Table II

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Source	Equipment Description					
65	Sulfite Blending #1 Baghous		0.06	SO,	MO.	YOC
66	Carbon/Perlite Additive Scrub		0.08	n.a.	n.a.	0.00
67	Bottom Ash Baghouse		0.47	n.a.	n.a.	0.00
68	Trona Silo/Bagging Machine Bagh	ouse	0.41	n.a.	n.a.	0.00
69	Soda Ash Silo/Bagging Machine Bag		0.41	n.a.	n.a.	0.00
70	Sulfite Silo/Bagging Machine Bag	······································	0.41	n.a.	n.a.	0.00
71	MBS Silo/Bagging Machine Bagho		0.41	n.a.	n.a.	0.00
72	MBS Soda Ash Feed Bin Vent Fil	ter	0.14	n.a.	n.a.	0.00
73	MBS Product Dryer		1.20	0.77	0.15	0.00
MV	Mine Vent		n.a.	n.a.	n.a.	115.00
	Subtotal, Current Plant Em	lssions (pph)	109.93	141.17	540.85	1059.20
	Annual Emission	Totals (TPY)	481.5	618.3	2368.9	4639.3
	Current Proposed	d Plant Mod	dificatio	ns		×
2a	Ore Crusher Building Baghouse #1	{RMV}	-1.60	n.a.	n.a.	0.00
2a	Ore Crusher Building Baghouse #1	{ADD}	1.60 β	n.a.	n.a.	0.00
2b	Ore Reclaim Baghouse #1	{RMV}	-0.20	n.a.	n.a.	0.00
6b	Product Silo Reclaim Baghouse #1	{RMV}	-1.40	n.a.	n.a.	0.00
6b	Product Silo Reclaim Baghouse #1	{ADD}	0.51	n.a.	n.a.	0.00
10	Coal Crushing & Storage Baghouse	{RMV}	-0.60	n.a.	n.a.	0.00
10	Coal Crushing & Storage Baghouse	{ADD}	0.26 α	n.a.	n.a.	0.00
11	Coal Transfer Station Baghouse	{RMV}	-0.60	n.a.	n.a.	0.00
11	Coal Transfer Station Baghouse	{ADD}	0.21 α	n.a.	n.a.	0.00
14	Boiler Coal Bunker Baghouse	{RMV}	-1.00	n.a.	n.a.	0.00
14	Boiler Coal Bunker Baghouse	{ADD}	0.37 α	n.a.	n.a.	0.00
15	DR-1 & 2 Product Dryers Scrubber	{RMV}	-6.80	n.a.	-1.20	-0.06
15	DR-1 & 2 Product Dryers Scrubber	{ADD}	4.34	n.a.	1.20	0.06
17	"A" & "B" Gas Fired Ore Calciners	{RMV}	-22.30	0.00	-20.00	-628.56
17	"A" & "B" Gas Fired Ore Calciners	{ADD}	22.30	0.00	30.00	776.00
18	#1 Coal Boiler Scrubber & Prcptr	{RMV}	-17.00	-70.00	-245.00	-0.50
18	#1 Coal Boiler Scrubber & Prcptr	{ADD}	5.00	70.00	245.00	0.50
19	#2 Coal Boiler Scrubber & Prcptr	{RMV}	-17.00	-70.00	-245.00	-0.50
19	#2 Coal Boiler Scrubber & Prcptr	{ADD}	5.00	70.00	245.00	0.50
26	DR-3 Alkaten Product Dryer Baghouse	{RMV}	-1.10	n.a.	n.a.	0.00
26	DR-3 Alkaten Product Dryer Baghouse	{ADD}	0.55	n.a.	0.25	0.01
41	Sulfite Product Loadout Baghouse	{RMV}	-0.40	n.a.	n.a.	0.00
41	Sulfite Product Loadout Baghouse	{ADD}	0.19	n.a.	n.a.	0.00
44	Caustic Lime Delivery Baghouse	{RMV}	-0.90	n.a.	n.a.	0.00
44	Caustic Lime Delivery Baghouse	{ADD}	0.18 α	n.a.	n.a.	0.00
46	#2 Ore Transfer Baghouse	{RMV}	-1.20	n.a.	n.a.	0.00
46	#2 Ore Transfer Baghouse	{ADD}	0.71	n.a.	n.a.	0.00
47	"C" Train Ore Crusher Baghouse	{RMV}	-5.10	n.a.	n.a.	0.00
48	"C" Ore Calciner Precipitator	{RMV}	-9.30	n.a.	-10.00	-314.28
48	"C" Ore Calciner Precipitator	{ADD}	9.30	n.a.	15.00	388.00
50	"C" Train Dryer Area Baghouse	{RMV}	-2.10	n.a.	n.a.	0.00
50	"C" Train Dryer Area Baghouse	{ADD}	0.70	n.a.	n.a.	0.00
51	DR-5 Product Dryer Precipitator	{RMV}	-4.80	n.a.	-18.00	
51	DR-5 Product Dryer Precipitator	{ADD}	SOLVAY	2016	1.4_00	L443 0.28

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Source			Pollu	tants	
Number	Equipment Description	PM ₁₀	so,	NO.	VOC
	Current Plant Emission	Sources			
2a	Ore Crusher Building Baghouse #1	1.60	n.a.	n.a.	0.00
2b	Ore Reclaim Baghouse #1	0.20	n.a.	n.a.	0.00
6a	Product Silo Top Baghouse #1	0.30	n.a.	n.a.	0.00
6b	Product Silo Reclaim Baghouse #1	1.40	n.a.	n.a.	0.00
7	Product Loadout Baghouse #1	1.20	n.a.	n.a.	0.00
10	Coal Crushing & Storage Baghouse	0.60	n.a.	n.a.	0.00
11	Coal Transfer Station Baghouse	0.60	n.a.	n.a.	0.00
14	Boiler Coal Bunker Baghouse	1.00	n.a.	n.a.	0.00
15	DR-1 & 2 Product Dryers Scrubber	6.80	n.a.	1.20	0.06
16	Dryer Area Housekeeping Baghouse	0.90	n.a.	n.a.	0.00
17	"A" & "B" Gas Fired Ore Calciners	22.30	0.00	20.00	628.56
18	#1 Coal Boiler Scrubber & Prcptr	17.00	70.00	245.00	0.50
19	#2 Coal Boiler Scrubber & Prcptr	17.00	70.00	245.00	0.50
20	Gas & Diesel Storage Tanks	n.a.	n.a.	n.a.	0.02
24	Boiler Flyash Silo Vent Baghouse	0.30	n.a.	n.a.	0.00
25	Alkaten Crushing Area Baghouse	1.00	n.a.	n.a.	0.00
26	DR-3 Alkaten Product Dryer Baghouse	1.10	n.a.	n.a.	0.00
27	Alkaten Product Bagging Baghouse	0.50	n.a.	n.a.	0.00
28	DR-4 Fld Bed Product Dryer Scrubber	2.90	n.a.	n.a.	0.00
30	Caustic #1 Lime Bin Baghouse	0.20	n.a.	n.a.	0.00
31	Caustic #2 Lime Bin Baghouse	0.20	n.a.	n.a.	0.00
32	Caustic Evaporator Brmtrc Condenser	0.00	n.a.	n.a.	0.00
33	Sulfite Sulfur Burner Scrubber	n.a.	0.40	1.50	0.00
34	Sulfite Crystallizer	0.00	n.a.	n.a.	0.00
35	Sulfite Product Dryer Scrubber	1.40	n.a.	n.a.	0.00
36	Sulfite #1 Product Bin Baghouse	0.10	n.a.	n.a.	0.00
37	Sulfite #2 Product Bin Baghouse	0.10	n.a.	n.a.	0.00
38	Sulfite #3 Product Bin Baghouse	0.10	n.a.	n.a.	0.00
39	Sulfite #4 Product Bin Baghouse	0.10	n.a.	n.a.	0.00
40	Sulfite Product Bagging Baghouse	0.30	n.a.	n.a.	0.00
41	Sulfite Product Loadout Baghouse	0.40	n.a.	n.a.	0.00
42	Sulfite HCl Tank Vent	n.a.	n.a.	n.a.	0.00
43	Sulfite Sulfur Tank Storage Vent	n.a.	n.a.	n.a.	0.00
44	Caustic Lime Delivery Baghouse	0.90	n.a.	n.a.	0.00
45	Alkaten Transloading Baghouse	0.20	n.a.	n.a.	0.00
46	#2 Ore Transfer Baghouse	1.20	n.a.	n.a.	0.00
47.	"C" Train Ore Crusher Baghouse	5.10	n.a.	n.a.	0.00
48	"C" Ore Calciner Precipitator	9.30	n.a.	10.00	314.28
50	"C" Train Dryer Area Baghouse	2.10	n.a.	n.a. 🥼	0.00
51	DR-5 Product Dryer Precipitator	4.80	n.a.	18.00	0.28
52	Product Silo Top Baghouse #2	0.50	n.a.	n.a.	0.00
53	Product Silo Reclaim Baghouse #2	1.10	n.a.	n.a.	0.00
54	T-200 Product Storage Baghouse	0.19	n.a.	n.a.	0.00
55	Recycle/Reclaim Baghouse	0.40	n.a.	n.a.	0.00
62	Activated Carbon Bin Vent	0.13	n.a.	n.a.	0.00
63	Perlite Bin Vent Baghouse	0.17	n.a.	n.a.	0.00
64	Sulfite Blending #2 Baghouse	SOLYAY	2016	L.4_001	444